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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-17-07** **Date: 20-05-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/29/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-07/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	–
2	Finess by Air permeablity method (m^2/kg, Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.2	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-17-07** **Date: 15-06-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/29/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-07/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	18-05-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

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Quality Manager

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ. ರವೀಂದ್ರನಗರ. ಬೆಂಗಳೂರು

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-17-07** **Date: 20-05-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/29/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-07/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	399	399	2.7	97.3	90-100
3	20 mm	7343	7742	51.6	48.4	30-70
4	10 mm	5015	12757	85.0	15.0	10-35
5	4.75 mm	1692	14449	96.3	3.7	0-5
6	Pan	551	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-17-07** **Date: 20-05-2017**

Sample ID No : 2017-05-17-07/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.9	
3	Specific Gravity	2.59	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.22	_

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Harshitha

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Authorized Signatory
Quality Manager

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ಎಸ್.ಎಂ. ಕೃಷ್ಣ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-17-07** **Date: 20-05-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer Reference	:	EE/DD/WO/29/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-07/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-17-07** **Date: 20-05-2017**

Sample ID No : 2017-05-17-07/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-17-07** **Date: 20-05-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/29/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-17

Sample ID No : 2017-05-17-07/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 17-05-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	247	771	77.1	22.9	5-20	8-30	12-40	15-50
7	150 micron	183	954	95.4	4.6	0-10	0-10	0-10	0-15
8	Pan	46	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Sig.....
Date.....
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M : 9972924526 | Tel : +91-80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-17-07** **Date: 20-05-17**

Sample ID No : 2017-05-17-07/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	_
2	Specific Gravity	2.55	_
3	Material finer than 75 micron(%)	4.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-30-05** **Date: 01-06-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/29/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-05/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	25/05/2017	01/06/2017	151.77 X 151.99 X 151.65	23068	8.165	417.5	18.1	17.7
2	Drain Concrete	M20	25/05/2017	01/06/2017	150.75 X 150.22 X 150.72	22646	8.185	389.5	17.2	
3	Drain Concrete	M20	25/05/2017	01/06/2017	151.46 X 151.06 X 150.29	22880	8.153	405.0	17.7	

Note:
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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-30-05** **Date: 22-06-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/29/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-05/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	25/05/2017	22/06/2017	151.88 X 150.27 X 151.88	22823	8.107	513.5	22.5	22.8
2	Drain Concrete	M20	25/05/2017	22/06/2017	150.22 X 151.09 X 150.88	22697	8.154	524.3	23.1	
3	Drain Concrete	M20	25/05/2017	22/06/2017	151.97 X 150.26 X 150.76	22835	8.162	518.4	22.7	

Note:
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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ಕೃಷ್ಣ, ಕವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-30-05** **Date: 23-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/29/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-17
Sample ID No	:	2017-05-30-05/04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2017	23/06/2017	150.32 X 150.42 X 150.22	22611	8.155	522.3	23.1	23.5
2	Drain Concrete	M20	26/05/2017	23/06/2017	150.76 X 149.20 X 149.66	22493	8.165	533.1	23.7	
3	Drain Concrete	M20	26/05/2017	23/06/2017	150.54 X 150.28 X 151.01	22623	8.154	533.9	23.6	

Note:
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Prepared by
Harsitha

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CIVIL Pro Sig..... Date..... BANGALORE
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಎಂ.ಇ.ಸಿ. ರಸ್ತೆ, ರಮೇಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-30-05** **Date: 02-06-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/29/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-05/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2017	02/06/2017	149.54 X 150.55 X 150.28	22513	8.196	407.5	18.1	17.8
2	Drain Concrete	M20	26/05/2017	02/06/2017	150.65 X 150.53 X 151.05	22677	8.276	394.6	17.4	
3	Drain Concrete	M20	26/05/2017	02/06/2017	150.86 X 149.22 X 150.83	22511	8.153	400.7	17.8	

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Prepared by
Harsitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಎಂ. ಎಸ್. ರನ್ನ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-30-05** **Date: 24-06-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/29/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-05/06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	27/05/2017	24/06/2017	150.11 X 150.28 X 150.29	22559	8.118	532.4	23.6	23.5
2	Drain Concrete	M20	27/05/2017	24/06/2017	150.65 X 149.86 X 150.66	22576	8.261	517.0	22.9	
3	Drain Concrete	M20	27/05/2017	24/06/2017	151.04 X 149.96 X 150.54	22650	8.054	545.9	24.1	

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Harsitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ಸದಾಶಿವನಗರ, ಬೆಂಗಳೂರು

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-30-05** **Date: 03-06-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/29/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-05/05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	27/05/2017	03/06/2017	150.87 X 150.42 X 150.22	22694	8.183	415.3	18.3	17.9
2	Drain Concrete	M20	27/05/2017	03/06/2017	150.45 X 150.92 X 151.76	22706	8.137	397.4	17.5	
3	Drain Concrete	M20	27/05/2017	03/06/2017	150.82 X 151.28 X 150.11	22816	8.148	410.7	18.0	

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Authorized Signatory
Quality Manager

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಫ್.ಸಿ. ಸರ್ಕಲ್, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-24-01** **Date: 26-05-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 24th cross near pipeline road BHEL Mini Colony Mallasandra in Ward No. 13 in Shettyhalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/29/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-17
Sample ID No	:	2017-05-24-01/01
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	25-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	532	655	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	541	668	21.0%	Satisfactory	Satisfactory

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Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com